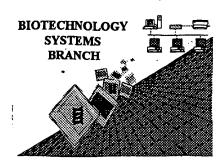
0590

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/965.//6
Source:	OIPE,
Date Processed by STIC:	12/20/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by the treatment given to all mail coming via the Brentwood Mail Facility.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
 1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202
 Or

U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Virginia 22202

4. Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/965, //6
ATTN: NEW RULES CASES	5: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWAF
lWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused fire <220>-<223> section to be missing from amino acid sequences(s) Normally, PalentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.
8Skipped Sequences' (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

DATE: 12/20/2001

OIPE

```
or 1-5
                                                                                                                                              TIME: 13:19:16
                                                 PATENT APPLICATION: US/09/965,116
                                                 Input Set : A:\47508-577.ST25.txt
                                                 Output Set: N:\CRF3\12202001\I965116.raw
                                                                                                                                                                          Does Not Comply
              3 <110> APPLICANT: Kandimalla, Ekambar R.
                                                                                                                                                                 Corrected Diskette Needed
                                Zhao, Qiuyan
             5
                                Yu, Dong
                                Agrawal, Sudhir
             8 <120> TITLE OF INVENTION: Modulation of Immunostimulatory Activity of
Immunostimulatory
                                Oligonucleotide Analogs by Positional Chemical Changes
           11 <130> FILE REFERENCE: HYZ-479CP (47508.577)
           13 <140> CURRENT APPLICATION NUMBER: US 09/965,116
           14 <141> CURRENT FILING DATE: 2001-09-26
           16 <150> PRIOR APPLICATION NUMBER: US 09/712,898
           17 <151> PRIOR FILING DATE: 2000-11-15
           19 <150> PRIOR APPLICATION NUMBER: US 60/235,452
           20 <151> PRIOR FILING DATE: 2000-09-26
           22 <150> PRIOR APPLICATION NUMBER: US 60/235,453
           23 <151> PRIOR FILING DATE: 2000-09-26
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           27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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          31 <212> TYPE: DNA
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35 <223> OTHER INFORMATION: Oligonucleotide
37 <400> SEQUENCE: 1
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40 <210> SEQ ID NO: 2
41 <211> LENGTH: 18
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Oligonucleotide

Mental

           31 <212> TYPE: DNA
            49 <222> LOCATION: 9
            50 <223> OTHER INFORMATION: c = 5-hydroxydeoxycytidine
            52 <400> SEQUENCE: 2
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            53 ctatctgacg ttctctgt
            55 <210> SEQ ID NO: 3
            56 <211> LENGTH: 18
            57 <212> TYPE: DNA
            58 <213> ORGANISM: Artificial Sequence
            60 <220> FEATURE:
            61 <223> OTHER INFORMATION: Coligonucleotide
            63 <221> NAME/KEY: modified_base
            64 <222> LOCATION: 10
            65 <223> OTHER INFORMATION: c = 5-hydroxydeoxycytidine
            67 <400> SEQUENCE: 3
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING

DATE: 12/20/2001 TIME: 13:19:16

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PATENT APPLICATION: US/09/965,116

Input Set : A:\47508-577.ST25.txt

Output Set: N:\CRF3\12202001\I965116.raw

- 70 <210> SEQ ID NO: 4 71 <211> LENGTH: 18 72 <212> TYPE: DNA 73 <213> ORGANISM: Artificial Sequence 75 <220> FEATURE: 78 <221> NAME/KEY: modified_base
- 76 <223> OTHER INFORMATION: oligonucleotid
- 79 <222> LOCATION: 9
- 80 <223> OTHER INFORMATION: c = N4-ethyldeoxycytidine
- 82 <400> SEQUENCE: 4 83 ctatctgacg ttctctgt
- 18 85 <210> SEQ ID NO: 5
- 86 <211> LENGTH: 18 87 <212> TYPE: DNA
- 88 <213> ORGANISM: Artificial Sequence
- 90 <220> FEATURE:
- 91 <223> OTHER INFORMATION: Oligonucleotide
- 93 <221> NAME/KEY: modified_base
- 94 <222> LOCATION: 10
- 95 <223> OTHER INFORMATION: c = N4-ethyldeoxycytidine
- 97 <400> SEQUENCE: 5
- 98 ctatctgacc ttctctgt
- 100 <210> SEQ ID NO: 6
- 101 <211> LENGTH: 16
- 102 <212> TYPE: DNA
- 103 <213> ORGANISM: Artificial Sequence
- 105 <220> FEATURE:
- 106 <223> OTHER INFORMATION: (oligonucleotide
- 108 <400> SEQUENCE: 6
- 109 aaggtcgagc gttctc
- 111 <210> SEQ ID NO: 7
- 112 <211> LENGTH: 18
- 113 <212> TYPE: DNA
- 114 <213> ORGANISM: Artificial Sequence
- 116 <220> FEATURE:
- 117 <223> OTHER INFORMATION oligonucleotide
- 119 <400> SEQUENCE: 7 120 atggcgcacg ctgggaga
- 122 <210> SEQ ID NO: 8
- 123 <211> LENGTH: 18
- 124 <212> TYPE: DNA
- 125 <213> ORGANISM: Artificial Sequence
- 127 <220> FEATURE:
- 128 <223> OTHER INFORMATION: oligonucleotide
- 130 <400> SEQUENCE: 8
- 131 cctactagcg ttctcatc
- 133 <210> SEQ ID NO: 9
- 134 <211> LENGTH: 18
- 135 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 12/20/2001 TIME: 13:19:16

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PATENT APPLICATION: US/09/965,116

Input Set : A:\47508-577.ST25.txt

Output Set: N:\CRF3\12202001\1965116.raw

- 136 <213> ORGANISM: Artificial Sequence 138 <220> FEATURE: 139 <223> OTHER INFORMATION: Oligonucleotide 141 <221> NAME/KEY: modified_base 142 <222> LOCATION: 10 143 <223> OTHER INFORMATION: g = 1', 2'-Dideoxyribose 145 <400> SEQUENCE: 9
- 146 cctactagcg ttctcatc
- 148 <210> SEQ ID NO: 10 149 <211> LENGTH: 18
- 150 <212> TYPE: DNA 151 <213> ORGANISM: Artificial Sequence
- 153 <220> FEATURE:
- 154 <223> OTHER INFORMATION: Oligonucleotide
- 156 <221> NAME/KEY: modified_base
- 157 <222> LOCATION: 8
- 158 <223> OTHER INFORMATION: g = 1', 2'-Dideoxyribose
- 160 <400> SEQUENCE: 10 161 cctactagcg ttctcatc
- 163 <210> SEQ ID NO: 11
- 164 <211> LENGTH: 18
- 165 <212> TYPE: DNA
- 166 <213> ORGANISM: Artificial Sequence
- 168 <220> FEATURE:
- 169 <223> OTHER INFORMATION: Oligonucleotide
- 171 <221> NAME/KEY: modified_base
- 172 <222> LOCATION: 7
- 173 <223> OTHER INFORMATION: a = 1',2'-Dideoxyribose
- 175 <400> SEQUENCE: 11
- 176 cctactagcg ttctcatc
- 178 <210> SEQ ID NO: 12
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- 181 <213> ORGANISM: Artificial Sequence
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- 186 <221> NAME/KEY: modified_base
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- 188 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
- 190 <400> SEQUENCE: 12
- 191 cctactagcg ttctcatc
- 193 <210> SEQ ID NO: 13
- 194 <211> LENGTH: 18
- 195 <212> TYPE: DNA
- 196 <213> ORGANISM: Artificial Sequence
- 198 <220> FEATURE:
- 199 <223> OTHER INFORMATION oligonucleotide
- 201 <221> NAME/KEY: modified_base
- 202 <222> LOCATION: 5

RAW SEQUENCE LISTING DATE: 12/20/2001 PATENT APPLICATION: US/09/965,116 TIME: 13:19:16

Input Set : A:\47508-577.ST25.txt

Output Set: N:\CRF3\12202001\I965116.raw

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RAW SEQUENCE LISTING DATE: 12/20/2001 PATENT APPLICATION: US/09/965,116 TIME: 13:19:16

Input Set : A:\47508-577.ST25.txt

Output Set: N:\CRF3\12202001\I965116.raw

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271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: oligonucleotide
276 <221> NAME/KEY: modified_base
277 <222> LOCATION: 13
278 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
280 <400> SEQUENCE: 18
281 cctactagcg ttctcatc
                                                                        18
283 <210> SEQ ID NO: 19
284 <211> LENGTH: 18
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence-
288 <220> FEATURE:
289 <223> OTHER INFORMATION: oligonucleotide
291 <221> NAME/KEY: modified_base
292 <222> LOCATION: 14
293 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
295 <400> SEQUENCE: 19
296 cctactagcg ttctcatc
                                                                        18
298 <210> SEQ ID NÓ: 20
299 <211> LENGTH: 18
300 <212> TYPE: DNA
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: oligonucleotide
306 <221> NAME/KEY: modified_base
307 <222> LOCATION: 4, 5
308 <223> OTHER INFORMATION: ac = 1',2'-Dideoxyribose
310 <400> SEQUENCE: 20
311 cctactagcg ttctcatc
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314 <211> LENGTH: 18
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316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: oligonucleotide
321 <221> NAME/KEY: modified_base
322 <222> LOCATION: 1, 2
323 <223> OTHER INFORMATION: cc = 1',2'-Dideoxyribose
325 <400> SEQUENCE: 21
326 cctactagcg ttctcatc
                                                                        18
328 <210> SEQ ID NO: 22
329 <211> LENGTH: 18
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: oligonucleotide
336 <221> NAME/KEY: modified_base
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The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors. VERIFICATION SUMMARY

PATENT APPLICATION: US/09/965,116

DATE: 12/20/2001 TIME: 13:19:17

Input Set : A:\47508-577.ST25.txt

Output Set: N:\CRF3\12202001\1965116.raw